

WHAT IS CLAIMED IS:

1. A mobile communications device power amplifier module comprising:

a substrate; and

5 a multiplayer substrate formed on said substrate, having electronic elements which construct a transmission voltage controlled oscillator and a power amplifier,

wherein said transmission voltage controlled oscillator and said power amplifier are integrated on said substrate.

10 2. A mobile communications device power amplifier module according to Claim 1, wherein an output impedance of said transmission voltage controlled oscillator is matched with an input impedance of said power amplifier, and said transmission  
15 voltage controlled oscillator is directly connected to said power amplifier.

3. A mobile communications device power amplifier module according to Claim 1, further comprising a common shield  
20 case which covers said power amplifier and said transmission voltage controlled oscillator.

4. A mobile communications device power amplifier module according to Claim 2, further comprising a common shield  
25 case which covers said power amplifier and said transmission

voltage controlled oscillator.

5. A mobile communications device terminal equipment  
comprising: a power amplifier module according to any one of  
5 Claim 1 to claim 4.

6. A mobile communications device base station  
comprising: a power amplifier module according to any one of  
Claim 1 to claim 4.

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